

Amendments to the Specification:

Please amend the paragraph starting at page 19, line 8, as follows:

-- From the relationship according to equation 1, the function of the total intensity I_{1i} to the left of the edge site (which results from the intensity I_{aH} of the ambient brightness and the sum of the intensity functions of the individual illuminations $k=1..n$) is shown as follows:

Equation 3:

$$I_{re}(\Theta_S, \Xi_S; \Theta_L, \Xi_L; E_L; \lambda_L) = I_{aH} + \sum_{k=1}^n \left[E_{L_k}(\Theta_{L_k}, \Xi_{L_k}; \lambda_{L_k}) \cdot p_{brdf_{H_{L_k}}}(\Theta_S, \Xi_S; \Theta_{L_k}, \Xi_{L_k}; \lambda_{L_k}; E_{L_k}) \right]$$

$$I_H(\Theta_S, \Xi_S; \Theta_L, \Xi_L; E_L; \lambda_L) = I_{aH} + \sum_{k=1}^n \left[E_{L_k}(\Theta_{L_k}, \Xi_{L_k}; \lambda_{L_k}) \cdot p_{brdf_{H_{L_k}}}(\Theta_S, \Xi_S; \Theta_{L_k}, \Xi_{L_k}; \lambda_{L_k}; E_{L_k}) \right]$$

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Please amend the paragraph starting at page 19, line 14, as follows:

-- The function of the total intensity I_{re} for an image region to the right of the edge site is shown in the same way as follows:

Equation 4:

$$I_{H}(\Theta_S, \Xi_S; \Theta_L, \Xi_L; E_L; \lambda_L) = I_{aH} + \sum_{k=1}^n \left[E_{L_k}(\Theta_{L_k}, \Xi_{L_k}; \lambda_{L_k}) \cdot p_{brdf_{H_{L_k}}}(\Theta_S, \Xi_S; \Theta_{L_k}, \Xi_{L_k}; \lambda_{L_k}; E_{L_k}) \right]$$

$$I_{re}(\Theta_S, \Xi_S; \Theta_L, \Xi_L; E_L; \lambda_L) = I_{aH} + \sum_{k=1}^n \left[E_{L_k}(\Theta_{L_k}, \Xi_{L_k}; \lambda_{L_k}) \cdot p_{brdf_{H_{L_k}}}(\Theta_S, \Xi_S; \Theta_{L_k}, \Xi_{L_k}; \lambda_{L_k}; E_{L_k}) \right] --$$

Please amend the paragraph starting at page 20, line 10,
as follows:

-- Equation 6:

$$\begin{aligned}\bar{I}(\Theta_S, \Xi_S; \Theta_L, \Xi_L; E_L; \lambda_L) &= \frac{I_{li}(\Theta_S, \Xi_S; \Theta_L, \Xi_L; E_L; \lambda_L) + I_{re}(\Theta_S, \Xi_S; \Theta_L, \Xi_L; E_L; \lambda_L)}{2} \\ &= \frac{1}{2} [I_{a_H} + I_{a_{re}}] + \sum_{k=1}^n \left[E_{L_k}(\Theta_{L_k}, \Xi_{L_k}; \lambda_{L_k}) \right] * \\ &= \frac{1}{2} [I_{a_H} + I_{a_{re}}] + \sum_{k=1}^n \left[E_{L_k}(\Theta_{L_k}, \Xi_{L_k}; \lambda_{L_k}) \right] *\end{aligned}$$

$$\left| p_{brdf_{H_{L_k}}}(\Theta_S, \Xi_S; \Theta_{L_k}, \Xi_{L_k}; \lambda_{L_k}; E_{L_k}) + p_{brdf_{re_{L_k}}}(\Theta_S, \Xi_S; \Theta_{L_k}, \Xi_{L_k}; \lambda_{L_k}; E_{L_k}) \right|$$

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Please amend the paragraph starting at page 21, line 8, as
follows:

--Equation 8:

$$\begin{aligned}H_{re}(\Theta_S, \Xi_S; \Theta_L, \Xi_L; E_L; \lambda_L) &= \frac{\sum_{s=1}^{m-1} \left| I_{re_s}(\Theta_S, \Xi_S; \Theta_L, \Xi_L; E_L; \lambda_L) + I_{re_{s-1}}(\Theta_S, \Xi_S; \Theta_L, \Xi_L; E_L; \lambda_L) \right|}{m-1} \\ &= \frac{1}{m-1} \left\{ \sum_{k=1}^n \left[E_{L_k}(\Theta_{L_k}, \Xi_{L_k}; E_{L_k}; \lambda_{L_k}) \right] * \right. \\ &\quad \left. \sum_{s=1}^{m-1} \left| p_{brdf_{re_s}}(\Theta_S, \Xi_S; \Theta_{L_k}, \Xi_{L_k}; E_{L_k}; \lambda_{L_k}) + p_{brdf_{re_{s-1}}}(\Theta_S, \Xi_S; \Theta_{L_k}, \Xi_{L_k}; E_{L_k}; \lambda_{L_k}) \right| \right\}\end{aligned}$$

$$\sum_{s=1}^{m-1} \left| p_{brdf_{n_s}}(\Theta_S, \Xi_S; \Theta_{L_k}, \Xi_{L_k}; E_{L_k}; \lambda_{L_k}) + p_{brdf_{n_{s-1}}}(\Theta_S, \Xi_S; \Theta_{L_k}, \Xi_{L_k}; E_{L_k}; \lambda_{L_k}) \right| \} \quad --$$

Please amend the paragraph starting at page 23, line 21,
as follows:

-- For the function of the mean brightness, the course of an
ancillary parameter can be determined as follows:

$$(I_{\max}/2) - \bar{I}(\Theta_S, \Xi_S; \Theta_{L_k}, \Xi_{L_k}; E_{L_k}; \lambda_{L_k})$$

$$(I_{\max}/2) - \bar{I}(\Theta_S, \Xi_S; \Theta_{L_k}, \Xi_{L_k}; E_{L_k}; \lambda_{L_k})$$

wherein I_{\max} is the maximum possible intensity. --

Please amend the paragraph starting at page 32, line 15,
as follows:

-- F_N = valuation factor for weighting valuation of the
ancillary parameter ~~"Edgesitecriterion_N"~~
"Edgesitecriterion_N". --